

DERWENT-ACC-NO: 1995-381344

DERWENT-WEEK: 199549

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TITLE: Optical fibre with improved light
transmittance - has
glass core comprising oxide(s) of silicon,
calcium, zinc,
barium, lithium, sodium, potassium, etc.

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PATENT-ASSIGNEE: GALANT E I[GALAI]

PRIORITY-DATA: 1987SU-4364435 (November 20, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
SU 1534979 A1	April 10, 1995	N/A
005 C03C 013/00		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
SU 1534979A1	N/A	1987SU-4364435
November 20, 1987		

INT-CL (IPC): C03C013/00

ABSTRACTED-PUB-NO: SU 1534979A

BASIC-ABSTRACT:

The optical fibre consists of a glass core that contains (wt.%):
37.0-48.2
SiO₂; 0.3-3.8 CaO; 8.3-16.6 ZnO; 0.9-15.7 BaO; 0.1-1.2 Li₂O; 4.9-6.3
Na₂O;
7.4-9.6 K₂O; 0.3-0.5 As₂O₃ or CeO₂, and 8.7-26.8 at least one oxide
from a gp.
contg. TiO₂, GeO₂, PbO and Nb₂O₅. The compsn. of the glass sheath
comprises
(wt.%): 56.8-61.7 SiO₂; 14.4-17.3 B₂O₃; 6.5-8.3 MgO; 0.1-1.5 Li₂O;
6.1-7.5
Na₂O; 9.3-11.3 K₂O; and 0.3-0.5 As₂O₃ or CeO₂.

USE - Used in fibre optics technology.

ADVANTAGE - Light transmittance is improved, and the glass fusion temps. are reduced.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: OPTICAL FIBRE IMPROVE LIGHT TRANSMITTANCE GLASS CORE
COMPRISE

OXIDE SILICON CALCIUM ZINC BARIUM LITHIUM SODIUM
POTASSIUM

DERWENT-CLASS: L01 V07

CPI-CODES: L01-F03F1;

EPI-CODES: V07-F01A3B;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-164815